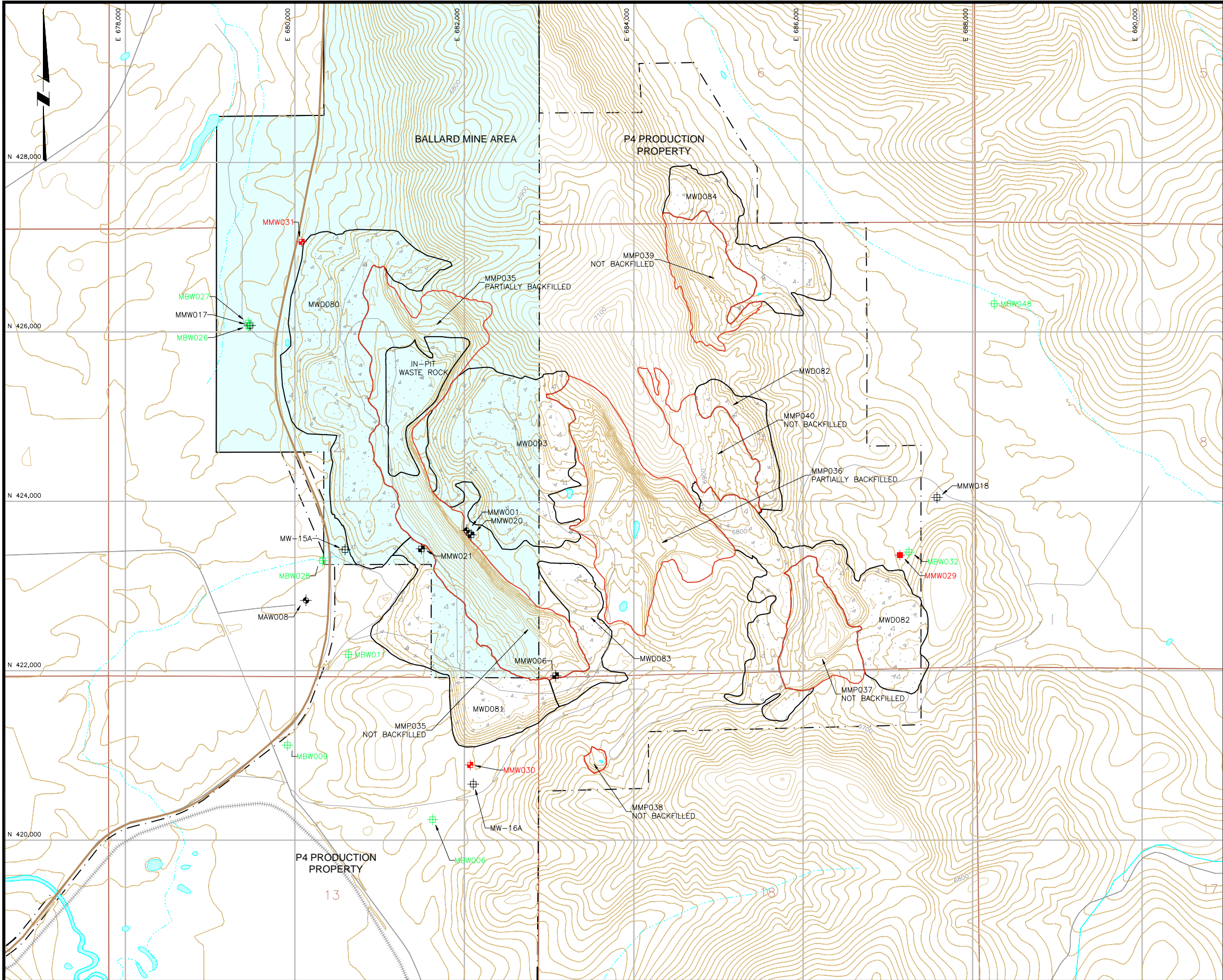


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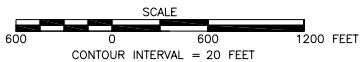


LEGEND:

- 7000 POST-MINE CONTOUR & ELEVATION, FEET
RIVER
POND OR LAKE
STREAM - PERENNIAL
STREAM - INTERMITTENT
HIGHWAY
ROAD
RAILROAD
P4 PRODUCTION HAUL ROAD (ACTIVE & INACTIVE)
MINE PIT LOCATION (APPROXIMATE WHERE COVERED BY BACKFILL)
WASTE ROCK PILE LOCATION
WASTE ROCK PILE LOCATION OR PIT BACKFILL (APPROXIMATE)
APPROXIMATE OWNERSHIP BOUNDARY
SECTION LINES
SECTION NUMBER
A
BLM LANDS
US NATIONAL FORESTS
STATE LANDS
INDIAN RESERVATION
NON FEDERAL LANDS
MMW022 GROUNDWATER MONITORING WELL LOCATION
MMW024 GROUNDWATER MONITORING WELL LOCATION INSTALLED IN 2008
MBW006 DIRECT-PUSH MONITORING WELL INSTALLED IN 2008
ALLUVIAL AQUIFER WELL
INTERMEDIATE AQUIFER - GENERALLY DINWOODY FM WELL
REGIONAL AQUIFER - WELLS FM WELL
AQUIFER UNKNOWN OR MULTIPLE AQUIFERS SCREENED

STATION TYPE:

- MAW = AGRICULTURAL WELL
MBW = DIRECT-PUSH MONITORING WELL
MDW = DOMESTIC WELL
MMP = MINE PIT
MMW = MONITORING WELL
MPW = PRODUCTION WELL
MWD = WASTE ROCK DUMP



REV	DESCRIPTION	TECH	ENG	DATE
2	FINAL	CHF	CLF	06/19/09
1	REVISION ISSUED FOR AGENCY REVIEW	CHF	CLF	05/13/09
0	ISSUED DRAFT FOR AGENCY REVIEW	CHF	CLF	03/05/09

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DRAWING REFERENCE(S):
1. POST-MINE TOPOGRAPHY GENERATED FROM:
• USGS DIGITAL ELEVATION MODELS (DEM)-24K
• SURVEY DATA FOR BALLARD MINE PROVIDED BY OLYMPUS AERIAL SURVEYS, INC. DATED: JUNE 2005
• SURVEY DATA FOR HENRY MINE AREA PROVIDED BY OLYMPUS AERIAL SURVEYS, INC. DATED: NOVEMBER 2008
• SURVEY DATA FOR ENOCH VALLEY MINE AREA PROVIDED BY P4 PRODUCTION DATED: DECEMBER 2007.

PROJECTION:
STATE PLANE COORDINATE SYSTEM
ZONE 10
IDAHO EAST
DATUM:
NAD27
VERTICAL DATUM:
NAVD29
UNITS:
U.S. FEET

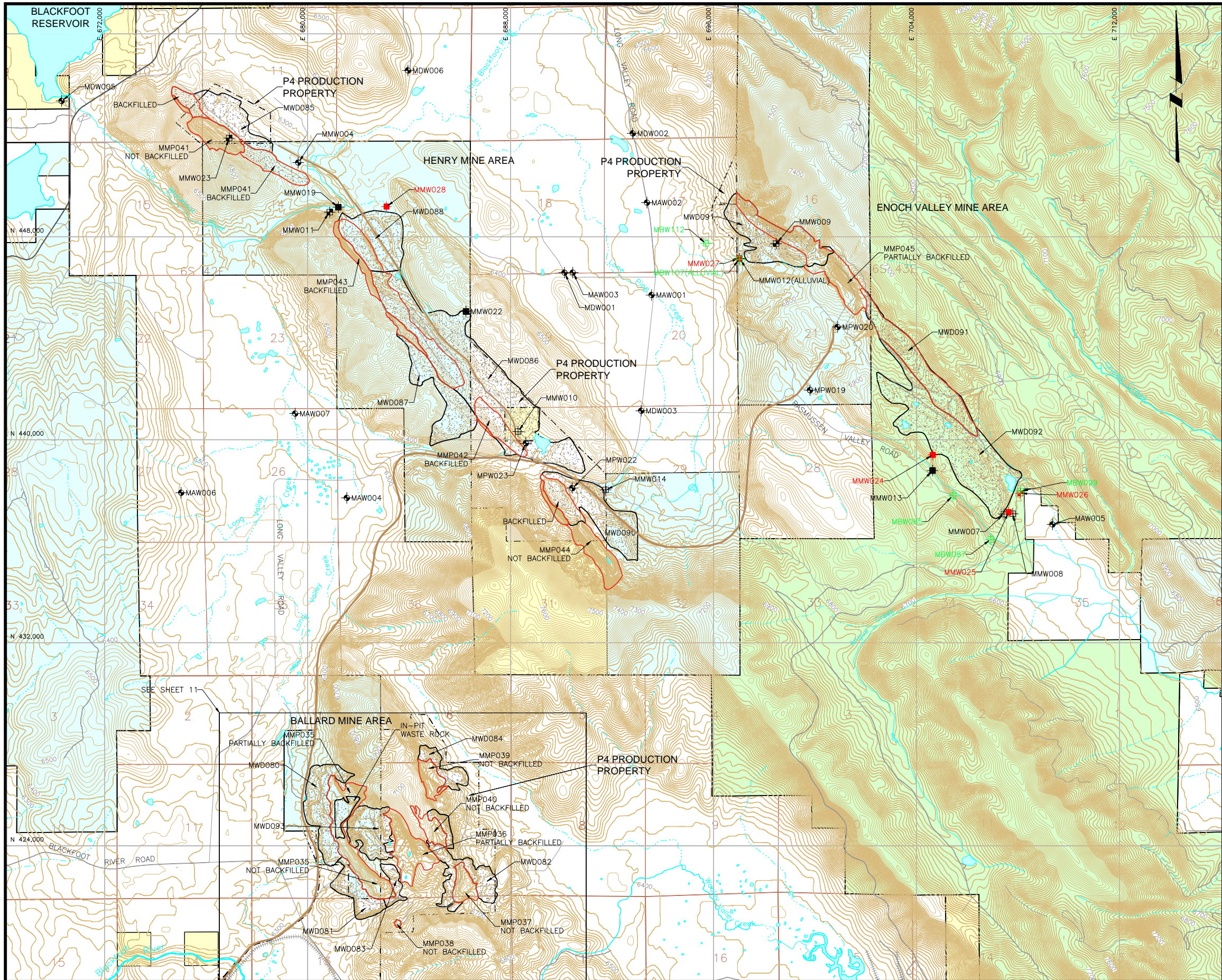
DESIGNED BY	C.FOULK	06/19/09
DRAWN BY	E.MARKS	06/19/09
CHECKED BY	C.FOULK	06/19/09
APPROVED BY	C.FOULK	06/19/09
PROJECT MANAGER	C.FOULK	06/19/09
CLIENT APPROVAL		
CLIENT REFERENCE NO.		

P4 PRODUCTION
SITE INVESTIGATION

PROJECT LOCATION	BALLARD, HENRY AND ENOCH VALLEY MINES
PROJECT	2007 AND 2008 DATA SUMMARY REPORT
TITLE	WELL LOCATION MAP - BALLARD MINE

	SHEET	11 of 30	REVISION	2
	FILE NAME	1005813D071		

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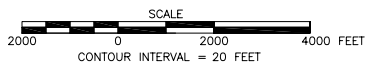


LEGEND:

- 7000 POST-MINE CONTOUR & ELEVATION, FEET
RIVER
POND OR LAKE
STREAM - PERENNIAL
STREAM - INTERMITTENT
HIGHWAY
ROAD
RAILROAD
P4 PRODUCTION HAUL ROAD (ACTIVE & INACTIVE)
MINE PIT LOCATION (APPROXIMATE WHERE COVERED BY BACKFILL)
WASTE ROCK PILE LOCATION
WASTE ROCK PILE LOCATION OR PIT BACKFILL (APPROXIMATE)
APPROXIMATE OWNERSHIP BOUNDARY
SECTION LINES
SECTION NUMBER
A
BLM LANDS
US NATIONAL FORESTS
STATE LANDS
INDIAN RESERVATION
NON FEDERAL LANDS
MMW022 GROUNDWATER MONITORING WELL LOCATION
MMW024 GROUNDWATER MONITORING WELL LOCATION INSTALLED IN 2008
MBW006 DIRECT-PUSH MONITORING WELL INSTALLED IN 2008
ALLUVIAL AQUIFER WELL
INTERMEDIATE AQUIFER - GENERALLY DINWOODY FM WELL
REGIONAL AQUIFER - WELLS FM WELL
AQUIFER UNKNOWN OR MULTIPLE AQUIFERS SCREENED

STATION TYPE:

- MAW = AGRICULTURAL WELL
MBW = DIRECT-PUSH MONITORING WELL
MDW = DOMESTIC WELL
MMP = MINE PIT
MMW = MONITORING WELL
MPW = PRODUCTION WELL
MWD = WASTE ROCK DUMP



REV	DESCRIPTION	TECH	ENG	DATE
2	FINAL	CHF	CLF	06/19/09
1	REVISION ISSUED FOR AGENCY REVIEW	CHF	CLF	05/13/09
0	ISSUED DRAFT FOR AGENCY REVIEW	CHF	CLF	03/05/09

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• SURVEY DATA FOR ENOCH VALLEY MINE AREA PROVIDED BY P4 PRODUCTION DATED: DECEMBER 2007.

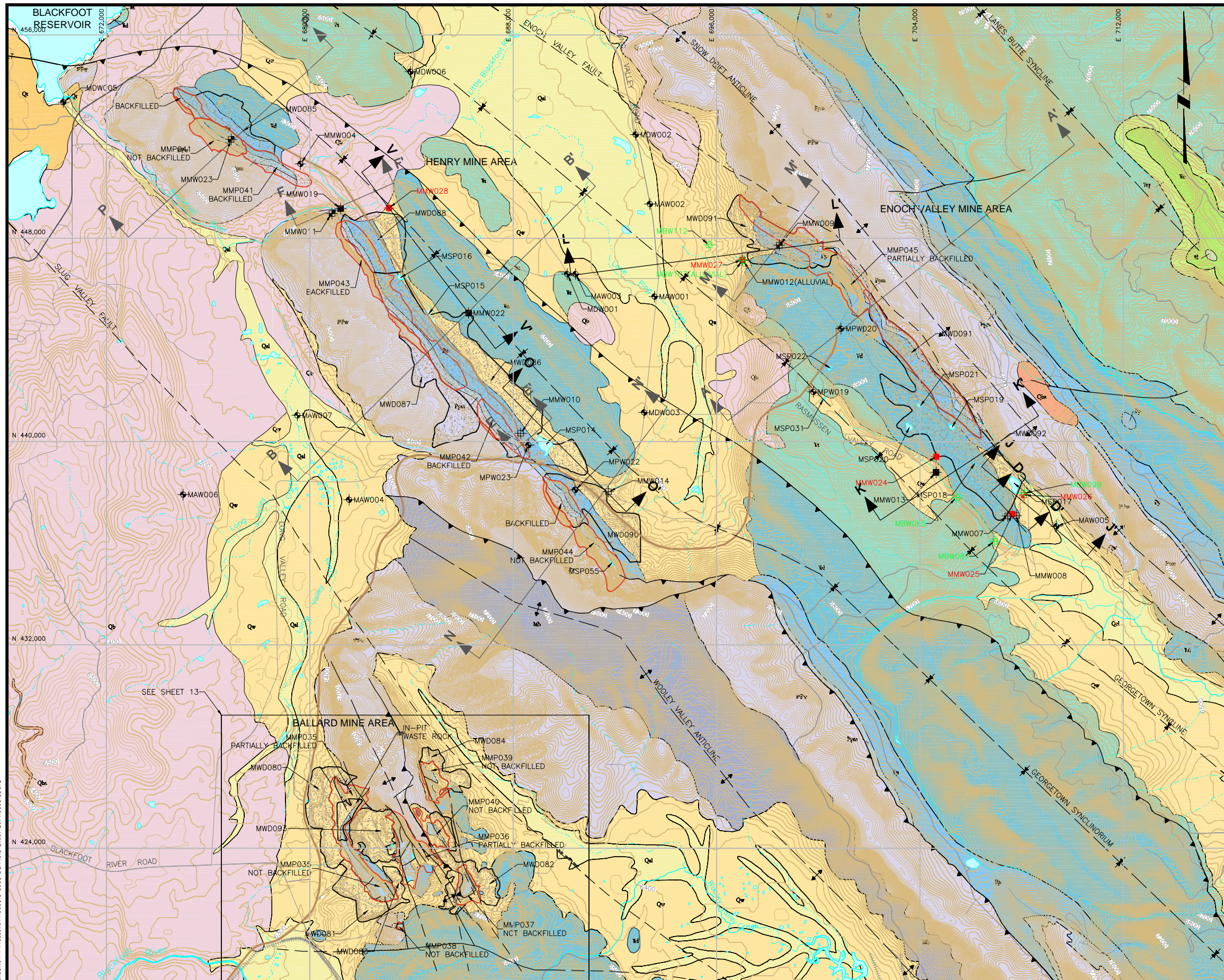
PROJECTION:
STATE PLANE COORDINATE SYSTEM
ZONE
IDAHO EAST
DATUM:
NAD27
VERTICAL DATUM:
NAVD29
UNITS:
U.S. FEET

DESIGNED BY	C.FOULK	06/19/09
DRAWN BY	E.MARKS	06/19/09
CHECKED BY	C.FOULK	06/19/09
APPROVED BY	C.FOULK	06/19/09
PROJECT MANAGER	C.FOULK	06/19/09
CLIENT APPROVAL		
CLIENT REFERENCE NO.		

P4 PRODUCTION
SITE INVESTIGATION

PROJECT LOCATION	BALLARD, HENRY AND ENOCH VALLEY MINES
PROJECT	2007 AND 2008 DATA SUMMARY REPORT
TITLE	WELL LOCATION MAP - HENRY AND ENOCH VALLEY MINES

SHEET	12 of 30	REVISION	2
FILE NAME	1005813D070		



LEGEND:

-
- Legend for map symbols:
- POST-MINE CONTOUR & ELEVATION, FEET
 - RIVER
 - POND OR LAKE
 - STREAM – PERENNIAL
 - STREAM – INTERMITTENT
 - HIGHWAY
 - ROAD
 - RAILROAD
 - P4 PRODUCTION HAUL ROAD (ACTIVE & INACTIVE)
 - MINE PIT LOCATION (APPROXIMATE WHERE COVERED BY BACKFILL)
 - WASTE ROCK PILE LOCATION
 - FAULT
 - TRUST FAULT
 - APPROXIMATE OR INFERRED FAULT
 - AXIS SYNCLINE
 - AXIS ANTICLINE
 - GROUNDWATER MONITORING WELL LOCATION
 - GROUNDWATER MONITORING WELL LOCATION INSTALLED IN 2008
 - DIRECT-PUSH MONITORING WELL INSTALLED IN 2008
 - ALLUVIAL AQUIFER WELL
 - INTERMEDIATE AQUIFER – GENERALLY DINWOODY FM WELL
 - REGIONAL AQUIFER – WELLS FM WELL
 - AQUIFER UNKNOWN OR MULTIPLE AQUIFERS SCREENED

GEOLOGIC KEY:

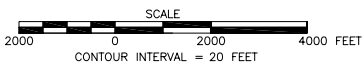
- | | |
|------------|-------------------------------------|
| Qb | BASALT |
| Qba | BASALTIC ASH (TUFF) |
| Qal | ALLUVIUM |
| Qt | TRAVERTINE |
| Qw | COLLUVIUM AND OLDER ALLUVIUM |
| l1 | DEADMAN LIMESTONE |
| l2 | HIGHAM GRIT |
| l3 | THAYNES FORMATION |
| l4 | TIMOTHY SANDSTONE (THAYNES MEMBER) |
| l5 | DINWOODY FORMATION (WOODSIDE SHALE) |
| l6 | PHOSPHORIA FORMATION |
| l7 | MEADE PEAK MEMBER |
| l8 | WELLS FORMATION |
| l9 | BRAZER LIMESTONE |
| l10 | MADISON LIMESTONE |

STATION TYPE:

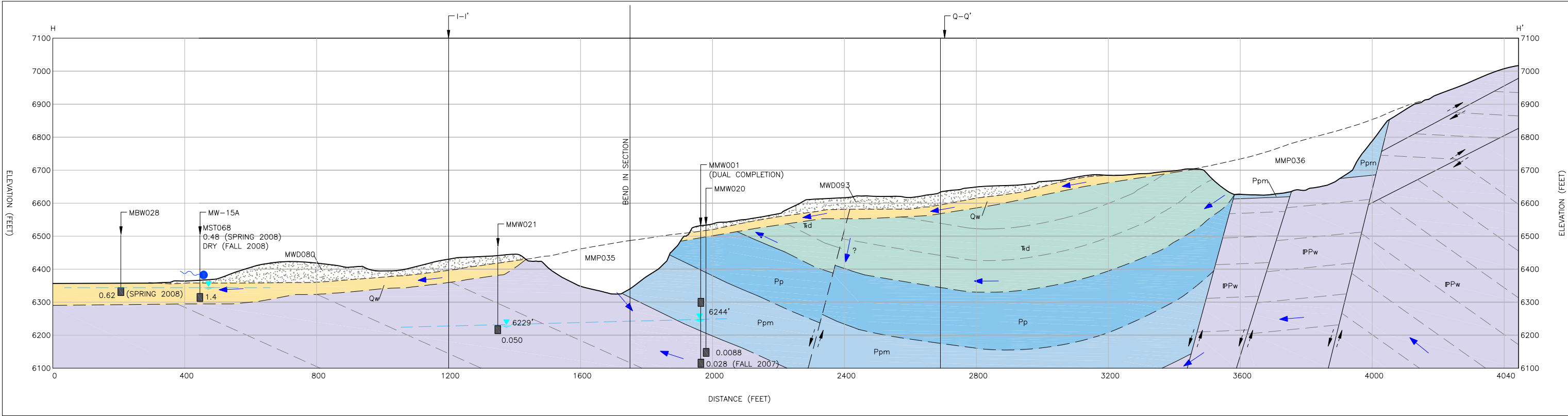
- MAW = AGRICULTURAL WELL
MBW = DIRECT-PUSH MONITORING WELL
MDS = DUMP SEEP
MDW = DOMESTIC WELL
MMP = MINE PIT
MMW = MONITORING WELL
MPW = PRODUCTION WELL
MSG = SPRING
MSP = POND
MST = SPRING FED STREAM LOCATION
MWD = WASTE ROCK DUMP

NOTES:

GRAYED SECTIONS CUTS ARE PRESENTED IN 2007 INTERIM HYDROGEOLOGIC REPORT (MWH, 2008c).

[illegible]

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SECTION H - H'



LEGEND:

- WASTE ROCK
- PRE-MINE SURFACE (WHERE DIFFERENT FROM CURRENT SURFACE)
- GEOLOGIC CONTACT (DASHED WHERE APPROXIMATE OR INFERRED)
- FAULT, SHOWING DIRECTION OF DISPLACEMENT (DASHED WHERE INFERRED)
- SCHEMATIC GROUNDWATER FLOW VECTOR
- MEASURED GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- PROJECTED POTENTIONMETRIC SURFACE
- MEASURED TOTAL SELENIUM CONCENTRATION IN mg/L (FALL 2008 SAMPLE, UNLESS OTHERWISE NOTED)
- MONITORING WELL LOCATION SHOWING APPROXIMATE SCREEN LOCATION
- SPRING OR DUMP SEEP

NOTE:

- SEE DRAWING 13 FOR DESCRIPTION OF GEOLOGIC UNITS AND SECTION LOCATIONS, GRANDEUR MEMBER IS PRESENT AT BALLARD, BUT IS INCLUDED WITH THE WELLS FORMATION.

REV	DESCRIPTION	TECH	ENG	DATE
2	FINAL	CHF	CLF	06/19/09
1	REVISION ISSUED FOR AGENCY REVIEW	CHF	CLF	05/13/09
0	ISSUED DRAFT FOR AGENCY REVIEW	CHF	CLF	03/05/09

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DRAWN BY	E.MARKS	06/19/09
CHECKED BY	C.FOULK	06/19/09
APPROVED BY	C.FOULK	06/19/09
PROJECT MANAGER	C.FOULK	06/19/09
CLIENT APPROVAL		
CLIENT REFERENCE NO.		

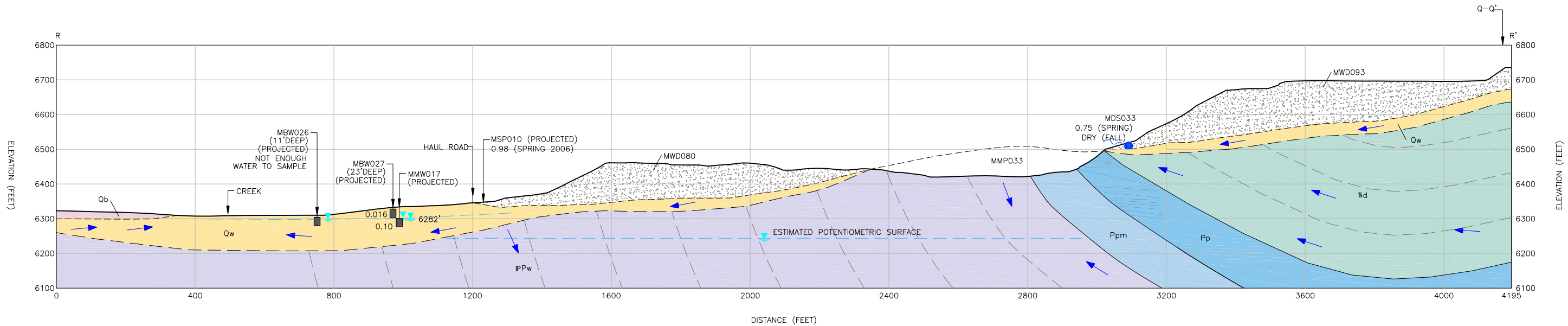
P4 PRODUCTION
SITE INVESTIGATION

PROJECT LOCATION	BALLARD, HENRY AND ENOCH VALLEY MINES
PROJECT	2007 AND 2008 DATA SUMMARY REPORT
TITLE	BALLARD MINE - GEOLOGIC SECTION H

SHEET	15 of 30	REVISION	2
FILE NAME	1005813D103		



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SECTION R - R'



LEGEND:

- WASTE ROCK
- PRE-MINE SURFACE (WHERE DIFFERENT FROM CURRENT SURFACE)
- GEOLOGIC CONTACT (DASHED WHERE APPROXIMATE OR INFERRED)
- FAULT, SHOWING DIRECTION OF DISPLACEMENT (DASHED WHERE INFERRED)
- SCHEMATIC GROUNDWATER FLOW VECTOR
- MEASURED GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- PROJECTED POTENTIONMETRIC SURFACE
- MEASURED TOTAL SELENIUM CONCENTRATION IN mg/L (FALL 2008 SAMPLE, UNLESS OTHERWISE NOTED)
- MONITORING WELL LOCATION SHOWING APPROXIMATE SCREEN LOCATION
- SPRING OR DUMP SEEP

NOTE:

- SEE DRAWING 13 FOR DESCRIPTION OF GEOLOGIC UNITS AND SECTION LOCATIONS, GRANDEUR MEMBER IS PRESENT AT BALLARD, BUT IS INCLUDED WITH THE WELLS FORMATION.

REV	DESCRIPTION	TECH	ENG	DATE
2	FINAL	CHF	CLF	06/19/09
1	REVISION ISSUED FOR AGENCY REVIEW	CHF	CLF	05/13/09
0	ISSUED DRAFT FOR AGENCY REVIEW	CHF	CLF	03/05/09

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DRAWN BY	E.MARKS	06/19/09
CHECKED BY	C.FOULK	06/19/09
APPROVED BY	C.FOULK	06/19/09
PROJECT MANAGER	C.FOULK	06/19/09
CLIENT APPROVAL		
CLIENT REFERENCE NO.		

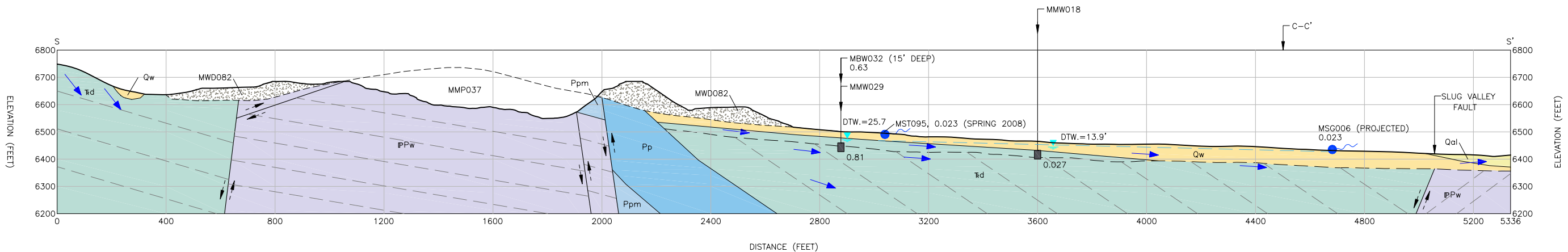
**P4 PRODUCTION
SITE INVESTIGATION**

PROJECT LOCATION	BALLARD, HENRY AND ENOCH VALLEY MINES
PROJECT	2007 AND 2008 DATA SUMMARY REPORT
TITLE	BALLARD MINE - GEOLOGIC SECTION R

SHEET	16 of 30	REVISION	2
FILE NAME	1005813D104		



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SECTION S - S'



LEGEND:

- WASTE ROCK
- PRE-MINE SURFACE (WHERE DIFFERENT FROM CURRENT SURFACE)
- GEOLOGIC CONTACT (DASHED WHERE APPROXIMATE OR INFERRED)
- FAULT, SHOWING DIRECTION OF DISPLACEMENT (DASHED WHERE INFERRED)
- SCHEMATIC GROUNDWATER FLOW VECTOR
- MEASURED GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- DEPTH TO WATER IN FEET (SURVEGED ELEVATION IS NOT AVAILABLE)
- MEASURED TOTAL SELENIUM CONCENTRATION IN mg/L (FALL 2008 SAMPLE, UNLESS OTHERWISE NOTED)
- MONITORING WELL LOCATION SHOWING APPROXIMATE SCREEN LOCATION
- SPRING OR DUMP SEEP

NOTE:

- SEE DRAWING 13 FOR DESCRIPTION OF GEOLOGIC UNITS AND SECTION LOCATIONS, GRANDEUR MEMBER IS PRESENT AT BALLARD, BUT IS INCLUDED WITH THE WELLS FORMATION.

REV	DESCRIPTION	TECH	ENG	DATE
2	FINAL	CHF	CLF	06/19/09
1	REVISION ISSUED FOR AGENCY REVIEW	CHF	CLF	05/13/09
0	ISSUED DRAFT FOR AGENCY REVIEW	CHF	CLF	03/05/09

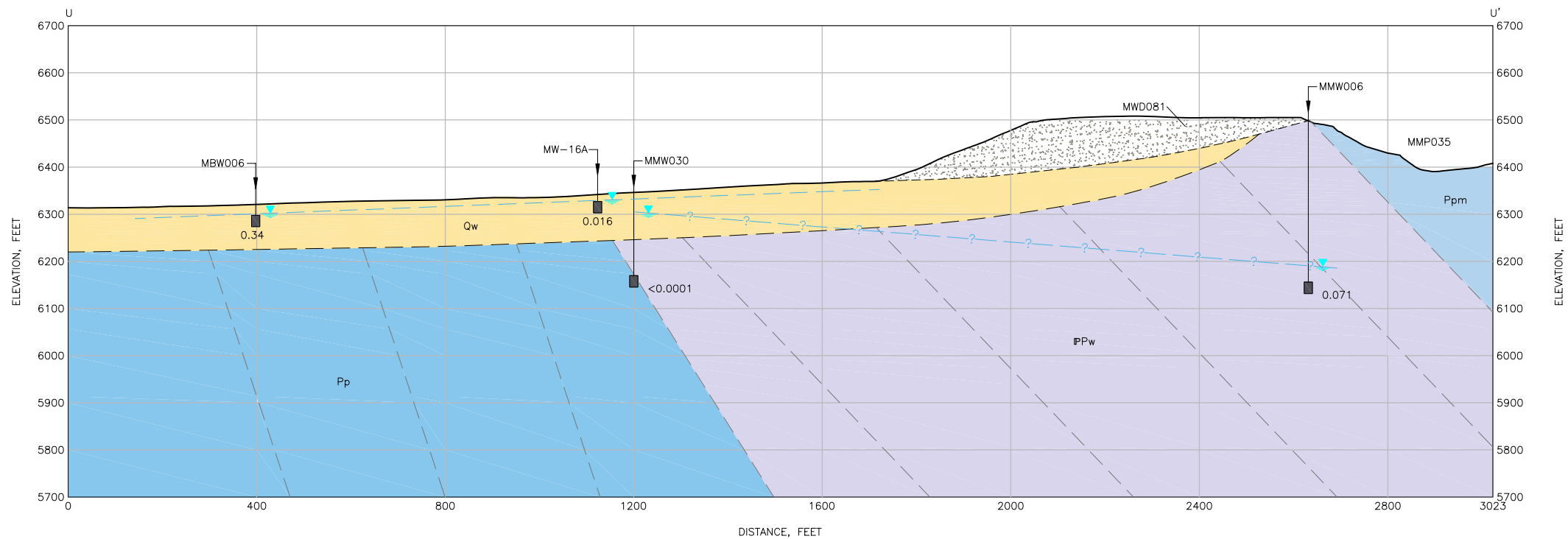
DISCLAIMER:
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DESIGNED BY	C.FOULK	06/19/09
DRAWN BY	E.MARKS	06/19/09
CHECKED BY	C.FOULK	06/19/09
APPROVED BY	C.FOULK	06/19/09
PROJECT MANAGER	C.FOULK	06/19/09
CLIENT APPROVAL		
CLIENT REFERENCE NO.		

P4 PRODUCTION
SITE INVESTIGATION

PROJECT LOCATION	BALLARD, HENRY AND ENOCH VALLEY MINES
PROJECT	2007 AND 2008 DATA SUMMARY REPORT
TITLE	BALLARD MINE - GEOLOGIC SECTION S

	SHEET	17 of 30	REVISION	2
	FILE NAME	1005813D105		



SECTION U - U'



LEGEND:

- WASTE ROCK
- PRE-MINE SURFACE (WHERE DIFFERENT FROM CURRENT SURFACE)
- GEOLOGIC CONTACT (DASHED WHERE APPROXIMATE OR INFERRED)
- FAULT, SHOWING DIRECTION OF DISPLACEMENT (DASHED WHERE INFERRED)
- SCHEMATIC GROUNDWATER FLOW VECTOR
- MEASURED GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- PROJECTED POTENTIOMETRIC SURFACE
- MEASURED TOTAL SELENIUM CONCENTRATION IN mg/L (FALL 2008 SAMPLE, UNLESS OTHERWISE NOTED)
- MONITORING WELL LOCATION SHOWING APPROXIMATE SCREEN LOCATION
- SPRING OR DUMP SEEP

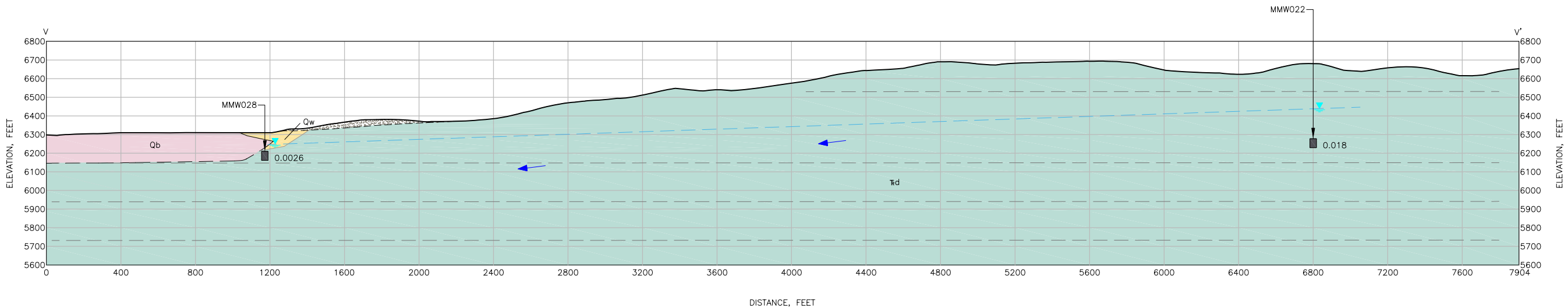
NOTE:

- SEE DRAWING 13 FOR DESCRIPTION OF GEOLOGIC UNITS AND SECTION LOCATIONS, GRANDEUR MEMBER IS PRESENT AT BALLARD, BUT IS INCLUDED WITH THE WELLS FORMATION.

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LEGEND:

- WASTE ROCK
- PRE-MINE SURFACE (WHERE DIFFERENT FROM CURRENT SURFACE)
- GEOLOGIC CONTACT (DASHED WHERE APPROXIMATE OR INFERRED)
- FAULT, SHOWING DIRECTION OF DISPLACEMENT (DASHED WHERE INFERRED)
- SCHEMATIC GROUNDWATER FLOW VECTOR
- MEASURED GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- PROJECTED POTENTIOMETRIC SURFACE
- MEASURED TOTAL SELENIUM CONCENTRATION IN mg/L (FALL 2008 SAMPLE, UNLESS OTHERWISE NOTED)
- MONITORING WELL LOCATION SHOWING APPROXIMATE SCREEN LOCATION
- SPRING OR DUMP SEEP

NOTE:

- SEE DRAWING 14 FOR DESCRIPTION OF GEOLOGIC UNITS AND SECTION LOCATIONS, GRANDEUR MEMBER IS PRESENT AT BALLARD, BUT IS INCLUDED WITH THE WELLS FORMATION.

REV	DESCRIPTION	TECH	ENG	DATE
2	FINAL	CHF	CLF	06/19/09
1	REVISION ISSUED FOR AGENCY REVIEW	CHF	CLF	05/13/09
0	ISSUED DRAFT FOR AGENCY REVIEW	CHF	CLF	03/05/09

DISCLAIMER:
THIS DRAWING WAS DEVELOPED THROUGH THE APPLICATION OF PROFESSIONAL ENGINEERING SKILL AND PROPRIETARY METHODOLOGIES, PROCESSES, AND KNOW HOW OF MWH AS AUTHOR, ALL PURSUANT TO THE TERMS OF A CONTRACTUAL SCOPE OF WORK GOVERNING ITS PREPARATION. THIS DRAWING MAY NOT BE USED OR MODIFIED OTHER THAN IN STRICT ACCORDANCE WITH THE TERMS OF THE GOVERNING CONTRACT AND SCOPE OF WORK OR OTHERWISE ABSENT THE INVOLVEMENT AND CONSENT OF THE AUTHOR. ANY ALTERATION OR ADAPTATION OF THIS DRAWING SHALL BE CONSISTENT WITH THE AUTHOR'S CONTRACTUAL AND PROPRIETARY RIGHTS AND BE AT USER'S SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL RESPONSIBILITY OF MWH.

DESIGNED BY	C.FOULK	06/19/09
DRAWN BY	E.MARKS	06/19/09
CHECKED BY	C.FOULK	06/19/09
APPROVED BY	C.FOULK	06/19/09
PROJECT MANAGER	C.FOULK	06/19/09
CLIENT APPROVAL		
CLIENT REFERENCE NO.		

**P4 PRODUCTION
SITE INVESTIGATION**

PROJECT LOCATION	BALLARD, HENRY AND ENOCH VALLEY MINES
PROJECT	2007 AND 2008 DATA SUMMARY REPORT
TITLE	HENRY MINE - GEOLOGIC SECTION V

	SHEET	20 of 30	REVISION	2
	FILE NAME	1005813D115		